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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/888,914	06/25/2001	Sung-Ho Choi	678-694 (P9830) 9764		
28249 7	590 12/20/2004		EXAMINER		
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD.		WAHBA, ANDREW W			
UNIONDALE, NY 11553			ART UNIT	PAPER NUMBER	

DATE MAILED: 12/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)				
		09/888,9	14	CHOI ET AL.				
	Office Action Summary	Examine	-	Art Unit				
		Andrew V		2661				
Period fo	The MAILING DATE of this community or Reply	ication appears on th	e cover sheet with the c	orrespondence ad	dress			
THE - Exte after - If the - If NC - Failt Any	MAILING DATE OF THIS COMMUNI ensions of time may be available under the provisions or SIX (6) MONTHS from the mailing date of this comme e period for reply specified above is less than thirty (3) of period for reply is specified above, the maximum starue to reply within the set or extended period for reply reply received by the Office later than three months a med patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evalunication. (D) days, a reply within the statutory period will apply and will, by statute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from dication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
Status								
1) \	Responsive to communication(s) file	ed on 25 June 2001						
2a)□	·	2b)⊠ This action is r	non-final					
3)		•		secution as to the	e merits is			
-,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-20</u> is/are pending in the at 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-19</u> is/are rejected. Claim(s) <u>4-7,9,14-17 and 20</u> is/are of Claim(s) are subject to restrict	re withdrawn from co	·					
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>06/25/2001</u> is Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	s/are: a)⊠ accepted ction to the drawing(s) the correction is requir	pe held in abeyance. See red if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	, ,			
Priority (under 35 U.S.C. § 119							
12)⊠ a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies of application from the Internation	documents have bee documents have bee of the priority docum nal Bureau (PCT Ru	en received. en received in Applicati ents have been receive le 17.2(a)).	on No ed in this National	Stage			
Attachmen	at(s) ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (P		Paper No(s)/Mail Da	ate				
	mation Disclosure Statement(s) (PTO-1449 or Property No(s)/Mail Date	PTO/SB/08)	5) Notice of Informal F 6) Other:	atent Application (PTC)-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claim 1, the portions of the claim in lines 18-21 are difficult to follow. With regard to claim 10, the portions of the claim in lines 14-17 are difficult to follow. With regard to claim 11, the portions of the claim in lines 16-18 are difficult to follow. In each of these claims the applicant refers to a "time different", it is not clear what two steps are performed at different times.

With regard to claims 2, 3, 12 and 13 the term "starting time" and the manner in which in can refer to a channel is not understood.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 8, 10, 11, 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Ariyoshi et al (US Patent 5,930,244).

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With regard to claims 1, 10 and 11, Ariyoshi et al discloses an acquisition circuit that operates for timing (synchronizing) acquisition of a spreading code (scrambling code) (column 4, lines 18-24). Ariyoshi et al discloses a base station 401 connected to a network (UTRAN) as illustrated by Fig 10 (column 3, lines 66-67). Ariyoshi et al discloses an orthogonal code assigned to each terminal station (plurality of user equipments) generated from an orthogonal code generator 212 (orthogonal codes for identifying the UEs) (column 4, lines 13-18). Ariyoshi et al discloses, at the terminal station 402, an output of the first multiplier 304 is supplied to a second multiplier 305 to be multiplied by forward link pseudo noises PNf generated by a PN generator 312 (scrambling code generator). The PN generator 312 is set with noise patterns that are the same as the PNf specific to the forward link generated at the base station (uplink scrambling code for the UEs to identify the UTRAN). Ariyoshi et al discloses a decision circuit 213 that compares the acquired (receiving) phase while a de-spreading process for the received signal is performed in parallel, and outputs the phase difference information PD-i (measure a propagation delay) (column 4, lines 28-32). Ariyoshi et al discloses a reverse link synchronization controller 103 (controller) that generates phase jump information PJ-i for each terminal station, and in accordance with phase difference information PD-i generates a phase control instruction PC-i (time adjustment value and time offset) for each terminal station (UEs synchronize frames of uplink dedicated physical channels using the single scrambling code / UEs receive a signal providing system timing) (column 4, lines 36-43). In accordance with the contents of the phase synchronization control instruction PC-i (receiving the time adjustment value), the

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transmission phase controller 315 (transmission time of an uplink), outputs a control signal PS-i that is used for fine adjustment of the phases of the orthogonal code Wi and psudo noises PNr (UEs transmit a random access channel based on the system timing) (column 6, lines 61-65). Ariyoshi et al discloses a transmitting circuit (frame generator) that consists of a first multiplier 320 that multiplies the encoded data by the orthogonal code Wi (scrambling a frame with an orthogonal code) and a second multiplier (scrambler) that multiplies the output of the first multiplier by the reverse link PNr (scrambling code generated) to perform a second spectrum spread modulation (column 7, lines 25-37).

With regard to claims 8 and 18, Ariyoshi et al discloses a decision circuit 213 that compares the acquired phase while a de-spreading process for the received signal is performed in parallel, and outputs the phase difference information PD-i (time adjustment value) (column 4, lines 28-32).

With regard to claim 19, Ariyoshi et al discloses a transmitting circuit that consists of a first multiplier 320 that multiplies the encoded data by the orthogonal code Wi and a second multiplier that multiplies the output of the first multiplier by the reverse link PNr (scrambling code) to perform a second spectrum spread modulation (column 7, lines 25-37). The PN codes of the different base stations are offset from each other.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 2, 3, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ariyoshi et al (US Patent 5,930,244) in view of Dean et al (US Patent 5,839,052).

With regard to claims 2, 3, 12 and 13, Ariyoshi et al does not expressly disclose that the system time is a starting time of a common pilot channel CPICH signal or that the system time is a starting time of a primary common control physical channel P-CCPCH. Dean et al discloses a CDMA system in which each base station transmits a pilot (CPICH/P-CCPCH) having a common PN spreading code that is offset (system time) in phase code from pilot signals of other base stations (column 2, lines 12-19). The motivation to synchronize the pilot channel and control channel is to avoid collision between information sent by the different mobile terminals at other base stations. At the time the invention was made, therefore, it would have been obvious to one or ordinary skill in the art to which the invention pertains to obtain the invention as specified in claims 2, 3, 12 and 13.

Allowable Subject Matter

7. Claims 4-7, 9, 14-17 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew W Wahba whose telephone number is (571) 272-3081. The examiner can normally be reached on M-F 8:30-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth N Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

Andrew Wahba A Patent Examiner December 7, 2004

PHIRIN SAN PRIMARY EXAMINER